SunWize News

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Reliable People • Reliable Products • Reliable Power!

The Power to Explore Deep Space A Turn-key System Above the Clouds

Dealer Spotlight

Advanced Energy Group was recently commissioned to design and build a custom engineered stand alone power system for deployment above the clouds in the Andes Mountains in N. Chile in South America. It provides power for sensitive equipment used to establish whether a particular global site is suitable for constructing an extremely large 30 meter wide space telescope. Temperature at the site ranges from -20ºC to 20ºC. The power system was designed using a modular concept to enable rapid on-site deployment by as few as two persons at the extremely remote site as well as provide maximum reliability. The system was pre-deployed to complete various tests at a nearby observatory in La Serena, Chile (see photo), before being disassembled and transported in small off-road vehicles to the mountain top site.

The PV array generates 3.3 kWp using 30 Shell SM110-24P modules processed through three Solar Boost 50 charge controllers. The battery provides up to a full week of autonomy in -20ºC temperatures using 24 Concorde PVX-2580L sealed batteries. The distributed power provides the user with dual AC voltages using Exeltech sine wave inverters; both 120 VAC 60Hz and European 230 VAC 50 Hz. The system also provides dual DC voltages; 24 VDC and 12 VDC. The enclosures have gasket-sealed doors, they're fully insulated and have controllable air-circulation provisions.

Advanced Energy Group chose SunWize to supply virtually all the equipment and the enclosures. Direct Power & Water (PowerFab) built the enclosures to Advanced Energy Group's exact specifications. Carl McClellan of Advanced Energy Group states, "We are proud to work with SunWize because of the excellent communications, prompt and professional service, substantial inventory and highly competitive pricing." For more about Advanced Energy Group see www.solar4power.com

SunWize Celebrates Ten Year Anniversary

SunWize is very proud to announce their ten-year anniversary in the solar industry. SunWize was incorporated in New York State in 1993 as a distributor of solar modules and balance of system components. Today, the company also specializes in developing and manufacturing solar power systems and custom-engineered modules for integrating solar into OEM battery-operated products. The SunWize branded line of products includes the SunWize® PowerPort, Power Ready System, Power Station, Portable Energy System, SW solar modules and Solar Connect® residential grid-tied systems.

David Kulik, president, stated, "SunWize has grown substantially in ten years and now employs 55 people including some of the industry's most experienced sales, marketing and engineering talent." SunWize is a leading U.S. PV systems integration firm and is one of the largest solar equipment suppliers on the GSA schedule. SunWize also works with an extensive dealer network throughout North and South America. SunWize operates a 30,000-sq. ft. manufacturing/distribution facility in Kingston, NY, a distribution center in Oxnard, CA and eleven sales offices nationwide. A comprehensive research and development laboratory in the NY plant facilitates new product development.

In 2000, SunWize received a Pioneer in Excellence award from the New York State Energy Research and Development Authority (NYSERDA). The award is given in recognition of successful partnership with NYSERDA and excellence in energy innovation in the public interest for the State of New York. Peter R. Smith, acting president of NYSERDA, commented, "NYSERDA is pleased that our partnership with SunWize has helped a New York company become a leader in photovoltaics. Their early efforts and continued growth are working examples of Governor Pataki's vision that we can spur economic growth, while improving our environment. We look forward to SunWize's continued growth in serving the global solar market from right here in the Hudson Valley."

IN MEMORY OF OUR FRIEND

It is with heavy hearts that we say goodbye to our friend and colleague Rudy Varela who passed away July 21. We will miss Rudy's positive attitude and enthusiasm for the solar industry and the customers he served. We offer our condolences to his family and friends.

For further information please call Joanne Smith at 800-232-7652.

For more information about SunWize products, contact Joanne Smith at 800-232-7652, Mona Rotkopf at 800-333-1245, David Martindale at 877-207-5743, Mike Troutner at 877-270-2241, or Matt Martz at 888-870-9343. SunWize products can also be viewed online at: www.sunwize.com

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SunWize Manufactures Specialty Solar Modules for Cars Competing in the American Solar Challenge 2003

SunWize Technologies designed and manufactured specialty solar modules for five universities competing in this year's American Solar Challenge (ASC 2003): the University of Toronto, Georgia Institute of Technology, Yale University, the University of Arizona and the University of Virginia. The ASC 2003 included thirty university teams who raced their solar-powered cars 2400 miles, starting in Chicago on July 13 and finishing in Claremont, CA on July 23.

The University of Toronto Blue Sky Racing team members made their own modules in SunWize's manufacturing facility with technical support and supervision from John Martin, manufacturing design technician. Martin stated, "They came on a mission to rebuild their solar array that was damaged in a most unfortunate accident and had one week to build 139 solar modules. From testing and cutting the solar cells to the final lamination process and testing of each completed module, they worked seamlessly as a team." For race results go to: www.americansolarchallenge.org.

DID YOU KNOW? SunWize sold over 20,000 specialty modules last year for a variety of industries and applications such as traffic safety, railroad telemetry, and oil and gas pipelines. SunWize® Specialty Modules are custom engineered according to the product's power requirements. High efficiency single or polycrystalline silicon cells are cut, soldered together and terminations made. The cells are then encapsulated or laminated resulting in a weather and impact resistant module. Specialty modules are manufactured with a variety of substrates and easily integrated into curved or other unique shapes.